
SITEMANAGER II/v3

User Manual – English

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English Manual

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1. About the SITEMANAGER II/v3

1.1 General information

The SITEMANAGER II/v3 is a professional building management device which contains 8 configurable analogue inputs (0-10V or 0/4 -20mA), 8 digital inputs for smoke, fire, intrusion and other trip alarms and 8 switch outputs (4A/250 VAC). The analogue inputs can be used to connect sensors for humidity, temperature and other sensors. All measured data and status conditions of the digital inputs can be requested from a network interface. The input range of the analogue inputs can be easily adjusted for the different sensors using the web browser configuration. The controlling of the switch outputs is achieved via the different control commands of the SiteManager II/v3 web interface.

The SITEMANAGER II/v3 also has an internal time clock and logs all events and regular measurements with date and timestamps. The precision and exactness of the time can also be controlled using the SITEMANAGER II/v3 ability to synchronise its clock with up to three different timeservers either in the internet or within the local network using SNTP or RFC868. These logs can also be read out as pure text or graphed for visual investigation using the SITEMANAGER II/v3 built-in gChart controller. The processing and controlling of the SITEMANAGER II/v3 can also be done with the UPS-Management Software, Webbrowser and other SNMP systems.

The status of all inputs and outputs is displayed using LEDs built into the front panel of the unit. The SITEMANAGER II/v3 is designed as a 19-inch slot that allows for integration into 19-inch racks or for the mounting into separate 19-inch wall units.

1.2 Features



Figure 1: SITEMANAGER II/v3 front side

- Complete CS121 functionality
- 8 configurable analogue inputs (0-10V or 0/4-20mA)
- 8 digital inputs
- 8 switch outputs (4A/250 VAC)
- Remote configuration
- LED-status display
- 19"-chassis, only 1 HE
- Configuration via Web interface
- Email support, SNMP, FTP, Modbus over IP
- UPS interface

2. Installation

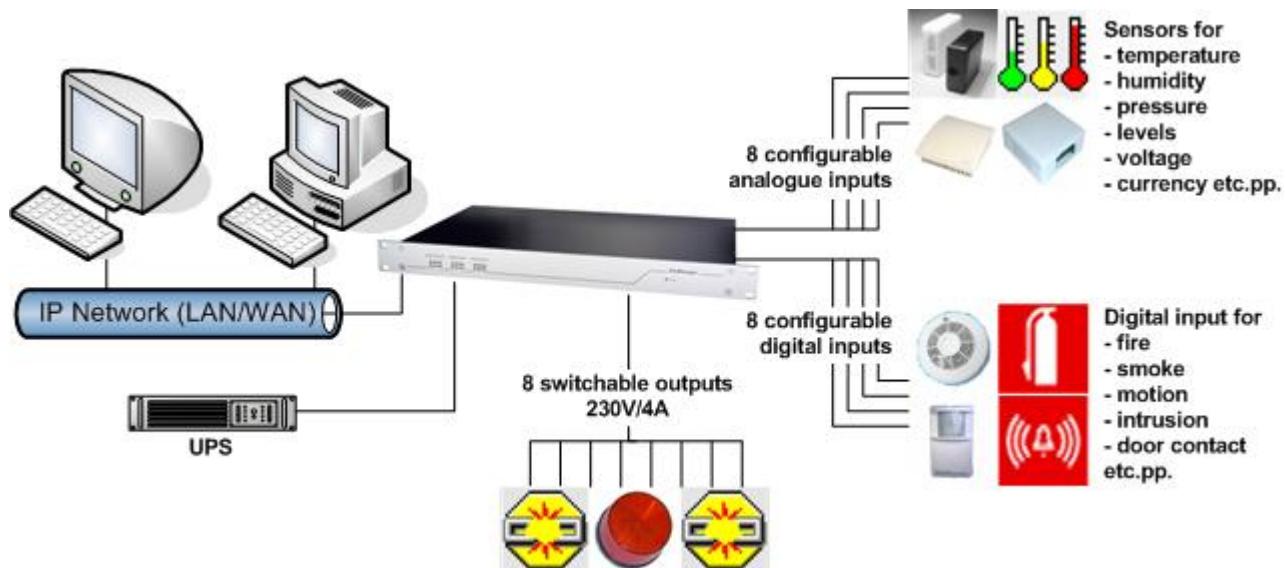


Figure 2: SITEMANAGER II/v3 with UPS

The figure above shows a typical installation of the SITEMANAGER II/v3 with a UPS connected. Imagine, that a numerous kind of sensors can be connected to the SITEMANAGER II/v3 and it is possible to manage all kind of current consuming devices by switching the outputs.

2.1 Connectors and connections Rev.A

The backside of the SITEMANAGER II/v3 incorporates the following connectors as shown below:

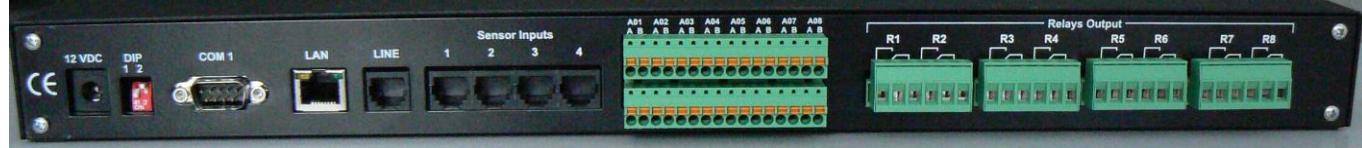


Figure 3: Backside of the SITEMANAGER II/v3

- Power supply: Connect the included external power supply unit (DC, 12V).
- DIP switch 1,2: With the DIP switches it is possible to change between configuration mode and normal operating mode. How to use the DIP switches please follow the instructions in section 3 Getting started – Basic settings.
- COM 1 port: If necessary, connect the UPS with the original vendors UPS cable.
- LAN connector: Connect the SITEMANAGER II/v3 with an RJ45 cable to the network.
- LINE: Port for external RAS service.
- 4 RJ12 connectors containing 8 analog inputs channels for sensors and other measurement units.
- 8 digital and 8 analog input sockets.
- 8 switchable relay outputs.

2.1.1 Analog input at RJ12 connectors

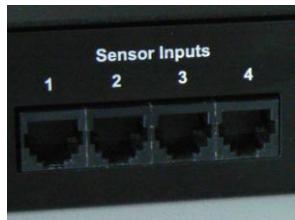


Figure 4: SiteManager II/v3 RJ12 connectors

The 4 RJ12 connectors contain each 2 analog input channels whereby it is possible to connect 8 analog sensors. Please see the figure below how to connect the different sensors at the RJ12 connectors. For the pin layout of the input sockets see the particular section in the appendix.

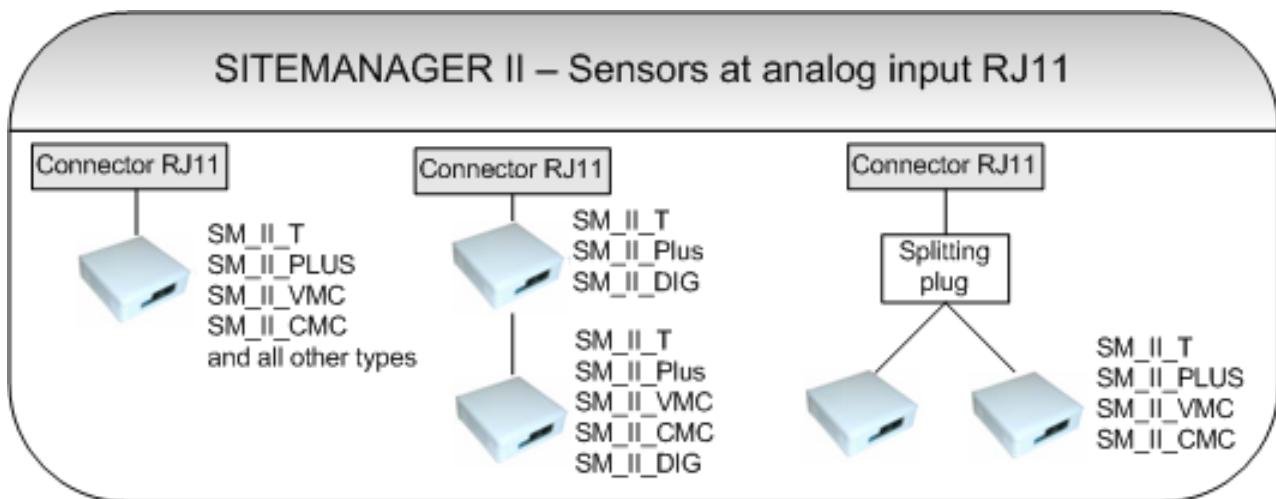


Figure 5: Sensor connections at the analog input RJ12

2.1.2 Analog input at open sockets Rev.A

While the RJ12 connectors are unused the analog input is also available at the open sockets A01-A08.

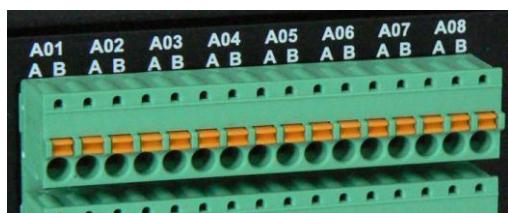


Figure 6: Analog input sockets

See the following figure how to assign the pins. Mind that the input signal must be in the range between 0-10V DC.

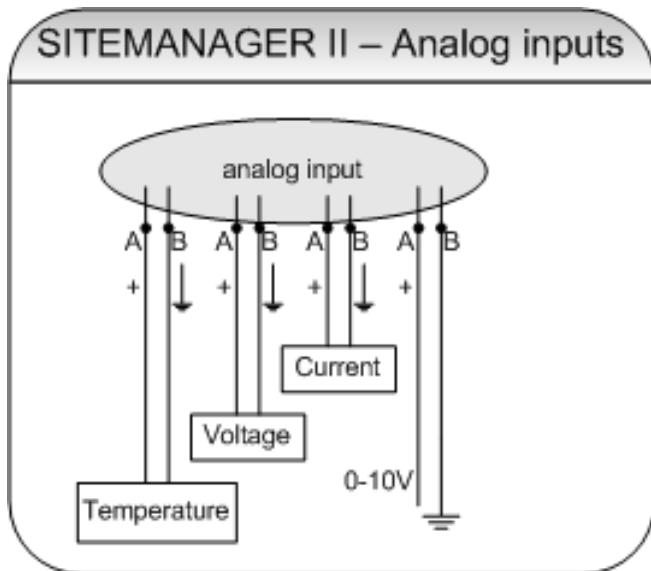


Figure 7: Pin assignment of the analog input sockets

Configuration of the analog input sockets of the SiteManager II/v3 Rev. B (from SN: SMG05-00411)

Every of the 8 analog input sockets provide the readout of the analog measurement values from **0-10V** (delivery state), **0-20mA** or rather **4-20mA**.

It is required to get the jumpers of the relative analog input socket of the main board into the accordant position.

Please do the following, if you want to change the delivery state:

ATTENTION!!! This should be done by qualified personnel only!!!

- Pull off the power supply of the SiteManager II/v3
- Disconnect all cables from the SiteManager II/v3
- Dismount the device
- Screw off the 4 lateral screws and take-off the housing cover
- Get the jumpers in their desired position (see fig. 8+9)

Delivery state (analog inputs 0-10V)

Both jumpers of the analog inputs 1-8 (channel 1-8) are set at **PIN 1+2** (see fig. 8).

In this positions of the jumpers, the following sensors are permitted for the connection at the analog inputs and should be selected as „sensor types“ into the SiteManager II/v3 configuration only:

- Custom 0-10V
- SM_II_T
- SM_II_T_H
- SM_II_T_Plus
- SM_II_VMC
- SM_II_CMC

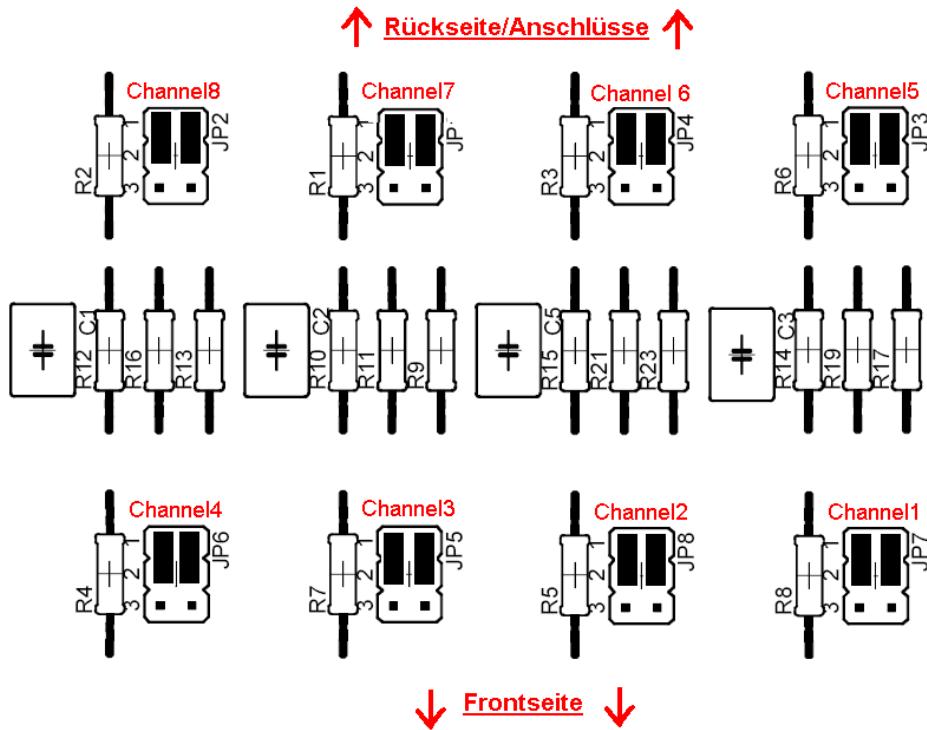


Figure 8: Jumper positions of the delivery state

Positions of the jumpers of the analog inputs 0-20mA or rather 4-20mA

Both jumpers of the analog inputs 1-8 (channel 1-8) are set at **PIN 2+3** (see fig. 9).

In this positions of the jumpers, the following sensors are permitted for the connection at the analog inputs and should be selected as „sensor types“ into the SiteManager II/v3 configuration only:

- Custom 0-20mA
- Custom 4-20mA

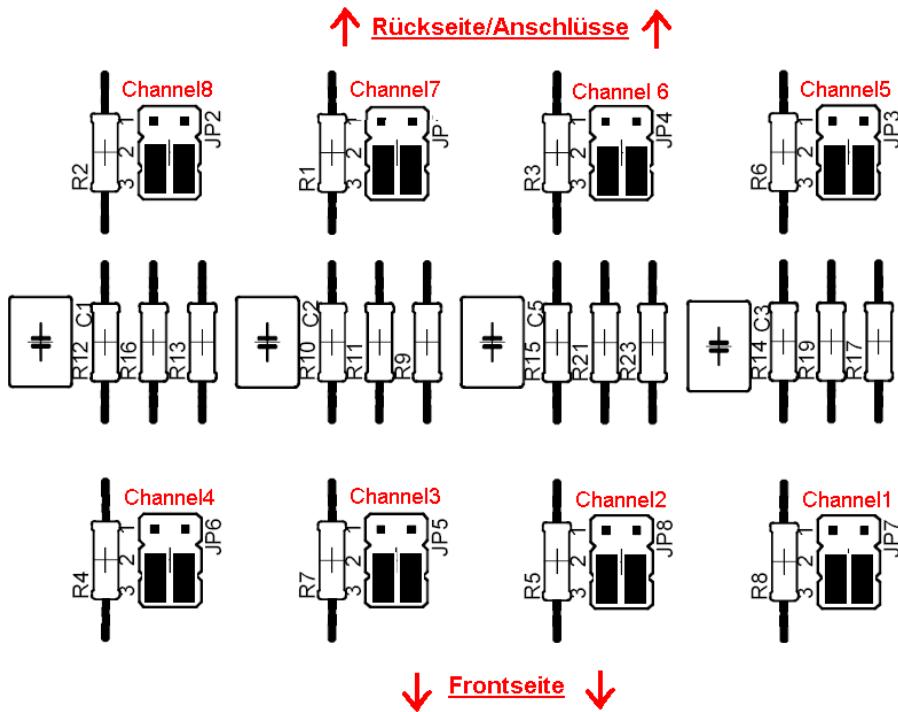


Figure 9: Jumper positions of the analog inputs 0-20mA, 4-20mA

2.1.3 Digital input connectors Rev.A

Underneath of the analog input sockets the bank for the 8 digital input sockets is located (D01-D08).

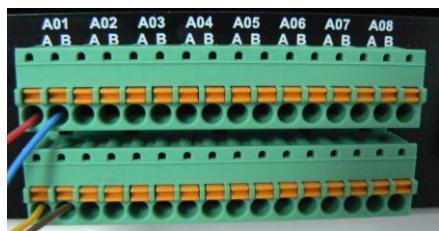


Figure 10: Analog input sockets (bank above, A01-A08) and digital input sockets (bank below, D01-D08)

Please follow the circuit examples as shown below for the pin assignment of the digital input sockets.

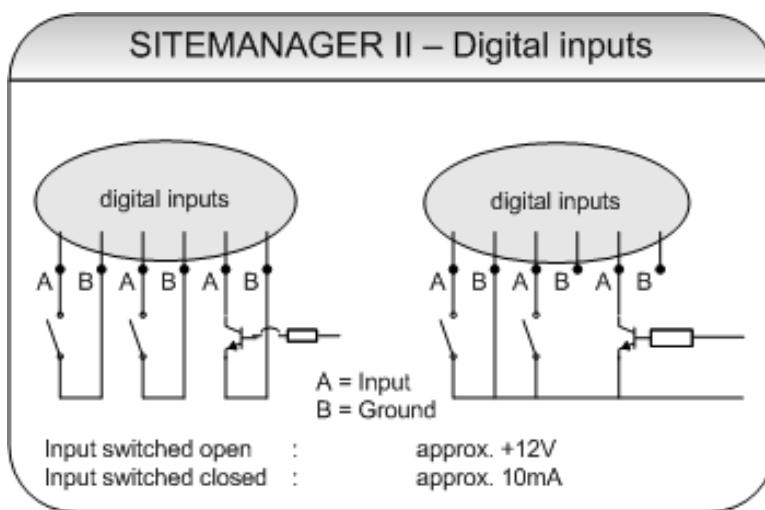


Figure 11: Pin assignment of the digital input sockets

ATTENTION! Connection sockets have changed!
Before activating the device notice the following !

The Digital- and Analog Input sockets of the SiteManager II/v3_Rev.B from **SN:SMG05-00411** or higher have changed. The lower sockets X1 deliver the power supply of 15 VDC and the Digitalinput sockets are on the upper 8 right ports of X2.

The Analoginputs are on the upper 8 left Ports of X2.(Fig.:*Digital-/Analog Inputs SiteManager II/v3*). Please notice the Fig. *Schematic Digital Inputs* and *Schematic Analog Inputs* when you connect your devices.

Inputs	A01	A02	A03	A04	A05	A06	A07	A08	D01	D02	D03	D04	D05	D06	D07	D08
X2	[Green]	[Green]	[Green]	[Green]	[Green]	[Green]	[Green]	[Green]	[Green]	[Green]	[Green]	[Green]	[Green]	[Green]	[Green]	[Green]
X1	[Black]	[Black]	[Black]	[Black]	[Black]	[Black]	[Black]	[Black]	[Black]	[Black]	[Black]	[Black]	[Black]	[Black]	[Black]	[Black]
	15V +	15V -	15V +	15V -	15V +	15V -	15V +	15V -	15V +	15V -	15V +	15V -	15V +	15V -	15V +	15V -
	max. 200mA															

Fig.: Digital-/Analog Inputs SiteManager II/v3

Fig.: Digital-/Analog Inputs SiteManager II/v3

SITEMANGER II - Digital Inputs

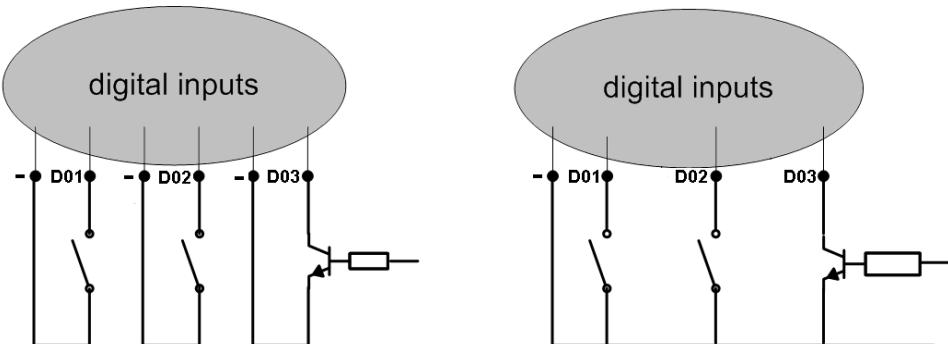


Fig.: Schematic Digital Inputs

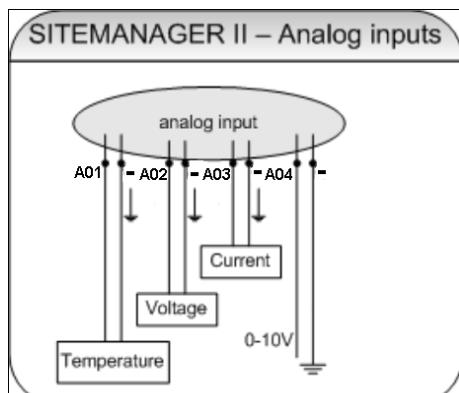


Fig.:Schematic Analog Inputs

2.1.4 Switchable relay outputs

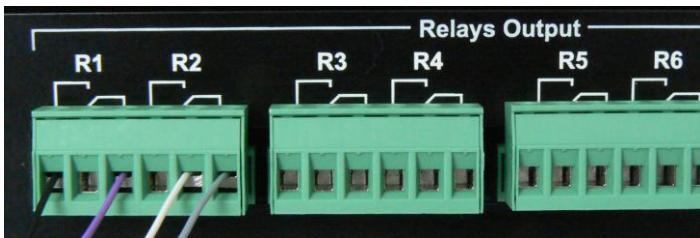


Figure 12: Switchable relay outputs

The SITEMANAGER II/v3 contains 8 switchable relay outputs to operate all kind of current consuming devices up to 4A. Please see the following circuit examples.

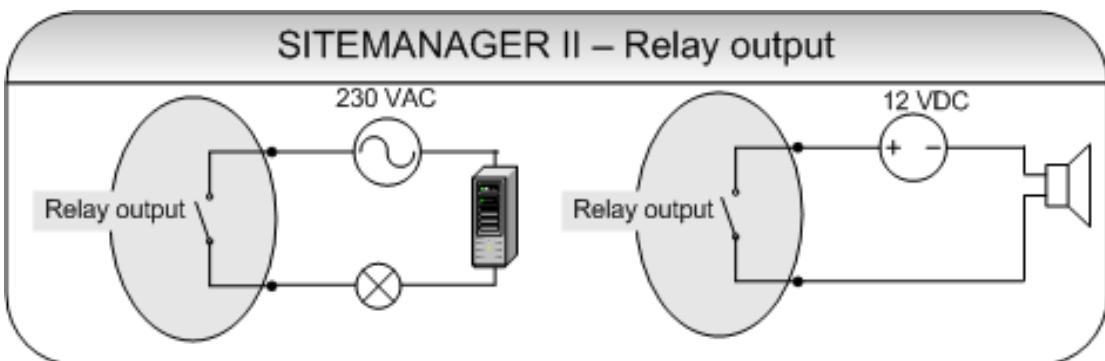


Figure 13: Relay outputs

2.2 Status LED's

The status of each Input and Output connector is shown by the LED at the SITEMANGER II/v3 front display whereas a green lit LED indicates, that the output/input is active and a red LED is shown in the case of a alarm (the LED is flashing while the alarm is not acknowledged).

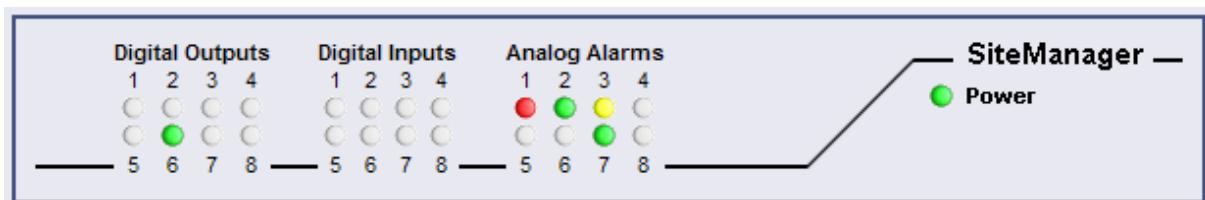


Figure 14: Status LED's at HTTP-interface

The actual status is also shown at the SITEMANAGER II/v3 web interface (see figure above) to monitor the devices on remote. Here, 4 status are differentiated:

LED	Status
Gray / unlit	Input / Output is not active
Green	Input / Output is active
Red	Alarm
Yellow	Alarm acknowledged

3. Getting started – Basic settings

Firstly, the startup of the SiteManager II/v3 requires some basic settings by which the SiteManger II/v3 unit will be integrated into the network environment:

- ▶ Set DIP switch 1 and 2 to position OFF after having connected the LAN port with an RJ45 cable to the network and - where required – having connected the UPS at COM1 (with the original vendors cable). This sets the SiteManager II/v3 to the configuration mode and enables the default IP adress 10.10.10.10. Plug in the power supply then to initiate the boot process. A running boot procedure is indicated with green flashing of the power LED at the SiteManager II/v3 front display.
- ▶ When the SiteManager II/v3 has finished its boot procedure (indicated with permanent green lightening of the power LED) a network connection can be built up. To establish a connection the network must route the SiteManager II/v3 answers under 10.10.10.10 to your local host. Usually you have to set a temporary route for this: Open the command prompt and type “route print” to see the actual routes. Use the command “route add 10.10.10.10 <your local IP-address>” to extend the actual routing table. Ping the adapter on IP-address 10.10.10.10 and you should receive the answers.

```
C:\>route print
=====
Schnittstellenliste
0x1 ...00 17 a4 41 39 7f .... MS TCP Loopback interface
0x2 ...00 17 a4 41 39 7f .... Broadcom NetXtreme Gigabit Ethernet - Paketplaner-Miniport
=====

Aktive Routen:
Netzwerkziel   Netzwerkmaske     Gateway      Schnittstelle  Anzahl
  0.0.0.0       0.0.0.0        192.168.202.1  192.168.202.51  20
  10.10.10.10  255.255.255.255 192.168.202.51  192.168.202.51  1
  127.0.0.0     255.0.0.0      127.0.0.1    127.0.0.1    1
  192.168.202.0 255.255.255.0  192.168.202.51  192.168.202.51  20
  192.168.202.51 255.255.255.255 127.0.0.1    127.0.0.1    20
  192.168.202.255 255.255.255.255 192.168.202.51  192.168.202.51  20
  224.0.0.0     240.0.0.0      192.168.202.51  192.168.202.51  20
  255.255.255.255 255.255.255.255 192.168.202.51  192.168.202.51  1
Standardgateway: 192.168.202.1
=====
Ständige Routen:
Netzwerkadresse   Netzmaske     Gatewayadresse  Anzahl
  10.10.10.10  255.255.255.255  192.168.202.51  1
C:\>
```

Figure 15: Route command and routing table

- ▶ Connect your Webbrowser (MS-Internet Explorer and Mozilla are supported) to the address <http://10.10.10.10> to reach the SiteManager II/v3 Webinterface. First of all the HTTP interface requires a logon whereas you use the username “admin” and the default password “cs121-snmp”.

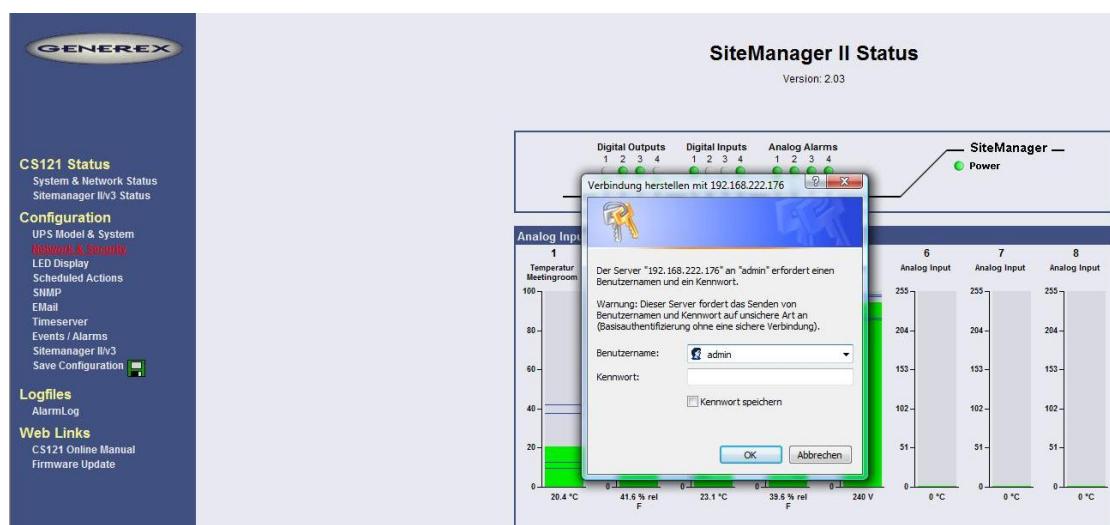


Figure 16: HTTP - logon

- ▶ Call the menu “Network & Security”. Make the settings for “Local Address”, “Gateway Address” and “Subnet Mask” (where required also for “DNS-Server”). Apply your settings with the button on the right bottom side of the menu.



Figure 17: HTTP- Basic network settings

- ▶ If a UPS is connected at the SITEMANAGER II/v3 serial COM 1 it is necessary to set some UPS parameters. Therefore call the menu “UPS-Model & System” and select from the drop-down menu the connected UPS model. Apply your settings with the button on the right bottom side of the menu.
- ▶ Call the menu “Save Configuration” and choose the option of the same name.
- ▶ Set DIP-Switch 1 to position ON, whereas DIP-Switch 2 stays in position OFF. Remove and insert the power supply from the SiteManager II/v3 to initiate the reboot process. See the power LED's to verify the reboot process.
- ▶ Reconnect the Webbrowser with the adapter using the configured IP address. (<http://<the adapter's IP-address>>). If you don't get an answer, please observe, that the routing table contains a route for the SiteManager II/v3 IP address.

The basic settings are now completed and the SITEMANAGER II/v3 is integrated into the network environment.

4. Configuration

4.1 Connected devices ...

The screenshot shows the configuration interface for the SiteManager II/v3. On the left, there's a sidebar with the GENEREX logo and links for CS121 Status, System & Network Status, Sitemanager II/v3 Status, Configuration (selected), UPS Model & System (highlighted), Network & Security, LED Display, Scheduled Actions, SNMP, EMail, Timeserver, Events / Alarms, Sitemanager II/v3, and Save Configuration with a save icon.

UPS Model & System Settings

UPS Model:	SiteManager II V3
Power (VA):	500
Load (VA):	500
Hold Time (min):	10
Recharge Time (h):	5
Baud Rate:	2400
Cable Type:	Serial
Exchange COM Ports:	<input type="checkbox"/>

Custom Values

Custom Text1:	
Custom Text2:	
Custom Text3:	

Figure 18: HTTP – UPS Model & System Settings for SITEMANGER II/v3

Select the UPS Model “SiteManager II/v3” into the UPS Model & System Settings.

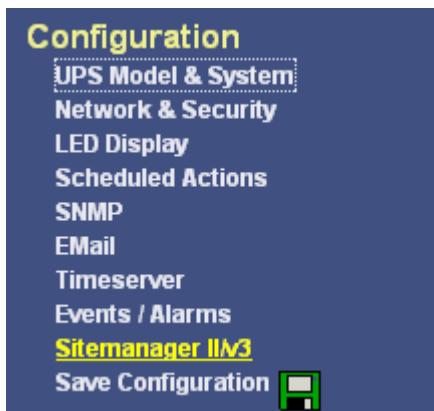


Figure 19: HTTP menu with SiteManager II/v3 configuration

Use this menu to configure the devices at the input and output sockets.

4.1.1 ... at analog input

On the top of the SiteManger II/v3 configuration page you see the section “Analog Inputs” for the settings for the 8 analog inputs:

Analog Inputs												
Port	Name	Low Alarm	Low PreAlarm	High PreAlarm	High Alarm	Sensor Range	Unit	Sensor Type				
1	Serverraum 7 Temperatur	13	<input checked="" type="checkbox"/>	15	<input checked="" type="checkbox"/>	39	<input checked="" type="checkbox"/>	42	<input checked="" type="checkbox"/>	0 - 100	°C	SM_II_T_H_RevA
2	Serverraum 7 Luftfeuchte	10	<input checked="" type="checkbox"/>	12	<input checked="" type="checkbox"/>	45	<input checked="" type="checkbox"/>	47	<input checked="" type="checkbox"/>	0 - 100	% rel F	SM_II_T_H_RevA
3	Analog Input	0	<input type="checkbox"/>	0	<input type="checkbox"/>	0	<input type="checkbox"/>	255	<input type="checkbox"/>	-25 - 100	°C	SM_II_Dig
4	Analog Input	0	<input type="checkbox"/>	0	<input type="checkbox"/>	0	<input type="checkbox"/>	255	<input type="checkbox"/>	-30 - 70	°C	SM_II_T_PLUS
5	Analog Input	0	<input type="checkbox"/>	0	<input type="checkbox"/>	0	<input type="checkbox"/>	255	<input type="checkbox"/>	0 - 255	V	SM_II_VMC
6	Analog Input	0	<input type="checkbox"/>	0	<input type="checkbox"/>	0	<input type="checkbox"/>	255	<input type="checkbox"/>	0 - 100	A	SM_II_CMC
7	Analog Input	0	<input type="checkbox"/>	0	<input type="checkbox"/>	0	<input type="checkbox"/>	255	<input type="checkbox"/>	0 - 255	°C	Custom 0-10V
8	Analog Input	0	<input type="checkbox"/>	0	<input type="checkbox"/>	0	<input type="checkbox"/>	255	<input type="checkbox"/>	0 - 255	°C	Custom 0-10V
Hysteresis:		3										
Lograte:		180	Seconds									
Apply												

Figure 20: HTTP configuration - Analog Inputs

Beside the name of the input you also define here as shown above the alarm thresholds, the sensor range and the measurement unit. Note, that the alarm values (low and high) are only active if the fields beside the alarm values are enabled. In the drop down menu "Sensor Type" some basic sensor models are already listed, which you can choose to set predefined values for these types (select "Custom" to make divergent or individual settings).

You can calibrate every sensor with the Sensor Range, that means if you want to rise a measured value for 5°C, just modify the default range from 0-100 to 5-100. Therefore you are able to adjust the measurement values like a gauged thermometer.

With the field "Hysteresis" you define the scope within the defined value can oscillate without releasing an alarm. This is important e.g. for temperature measurements, which are not increasing/decreasing continuously.

At "Lograte" you can set the loop time (in sec) in which the measured values will be written into the logfile.

4.1.2 ... at digital input

The 8 digital inputs can be configured within the following section.

Digital Inputs		Port Name		NC Contact Active		Port Name		NC Contact Active			
1	Manual Switch	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5	Digital Input 5	<input type="checkbox"/>	<input type="checkbox"/>	6	Digital Input 6	<input type="checkbox"/>	<input type="checkbox"/>
2	Magnetic Contact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	7	Digital Input 7	<input type="checkbox"/>	<input type="checkbox"/>	8	Digital Input 8	<input type="checkbox"/>	<input type="checkbox"/>
3	Motion Detector	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
4	Digital Input 4	<input type="checkbox"/>	<input type="checkbox"/>								
Apply											

Figure 21: HTTP configuration - Digital Inputs

Name the connected devices and set whether the contact is closed or not in its normal operating mode (Field NC Contact). Enable "Active" for all connected devices.

4.1.3 ... at digital outputs (relays)

The SITEMANAGER II/v3 contains 8 digital outputs which can be switched depending on various events and settings. Within the section "Outlets" you give each connected device a unique name and set whether the relay is to be closed or not in normal operating mode (PowerOn).

Outlets				?			
Port	Name	PowerOn	Timer	Port	Name	PowerOn	Timer
1	Outlet	<input type="checkbox"/>	5	5	Outlet	<input type="checkbox"/>	25
2	Outlet	<input type="checkbox"/>	10	6	Flashlight	<input type="checkbox"/>	30
3	Outlet	<input type="checkbox"/>	15	7	Outlet	<input type="checkbox"/>	35
4	Outlet	<input type="checkbox"/>	20	8	Outlet	<input type="checkbox"/>	40
<input type="button" value="Apply"/>							

Figure 22: HTTP configuration - Outlets

Furthermore it is possible to attach a timer value to each Outlet. This determinates how long an outlet will be switched (in seconds). Set the timer value to "0" if the outlet is to be switched without any time limit (application example: To switch on a buzzer for a specific timeframe).



Note: If you do not want to use a name for the Analog-, Digital Inputs or rather the Outlets, please set the following into the single name area:

4.2 Alarm matrix

The following "Alarm Matrix" gives you numerous possibilities to configure dependencies between different alarm states and to join them to different outlets. This makes it possible to process an alarm scenario in dependency of the state of several input sensors. (For example: An alarm scenario is to be released only if two temperature sensors are out of range or if the air condition is not active.)

Alarm Matrix																	
Marker Inverted	Logic	Digital Inputs								Low Alarms							
		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
Marker 1	<input type="checkbox"/>	Or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>						
Marker 2	<input type="checkbox"/>	And	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>						
Marker 3	<input type="checkbox"/>	And	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>						
Marker 4	<input type="checkbox"/>	And	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>						
Marker 5	<input type="checkbox"/>	And	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>						
Marker 6	<input type="checkbox"/>	And	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>						
Marker 7	<input type="checkbox"/>	And	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>						
Marker 8	<input type="checkbox"/>	And	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>						
																High PreAlarms	
																High Alarms	
Marker 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Marker 2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Marker 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Marker 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Marker 5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Marker 6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Marker 7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Marker 8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Figure 23: Alarm matrix – Marker configuration

In the figure above is shown the alarm matrix with its 8 markers to be set or unset. Each marker thereby is a new state on which specific alarm scenarios can be released.

For example: In the figure above is defined that the Marker1 will be set, when at the analog input 1 or 3 an alarm occurs. (Enabling the field “Marker Inverted” causes that Marker1 will be unset in case of an alarm at analog input 1 or 3.) Furthermore marker 2 will be set, when at the digital input 2 and at the analog input 2 an alarm state occurs at the same time. (Means that an alarm at just one input is not sufficient for setting marker 2) Accordingly it is possible to set (or unset) each marker in dependency of different digital and/or analog input states.

After having defined the conditions when markers are to be set resp. unset, you can specify the actions to be executed when a marker will be set/unset. Therefore you have two possibilities: The first is to handle the actions through the event configuration, described later on in section 4.4 Event configuration. This is possible because each marker has its own event “Alarm Marker x”, which can be configured through the event configuration.

The second possibility is to switch an relay output in dependency of the status of one or several markers. Therefore you have the output matrix, figured as below. In this example is configured that Output 6 is to be switched on when Marker 1 or Marker 2 is set (or the opposite way around in case “Output Inverted” is enabled). Using the “Alarm Matrix” offers you numerous possibilities to switch Outputs in dependency of input alarms.

	Output Inverted	Logic	Marker							
			1	2	3	4	5	6	7	8
Output 1	<input type="checkbox"/>	And ▾	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Output 2	<input type="checkbox"/>	And ▾	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Output 3	<input type="checkbox"/>	And ▾	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Output 4	<input type="checkbox"/>	And ▾	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Output 5	<input type="checkbox"/>	And ▾	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Output 6	<input type="checkbox"/>	Or ▾	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
Output 7	<input type="checkbox"/>	And ▾	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Output 8	<input type="checkbox"/>	And ▾	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Disable Outputs: <input type="checkbox"/>										
<input type="button" value="Apply"/>										

Figure 24: Alarm Matrix – Switching of relay outputs

If Outputs were linked in dependency of input alarms into the “Alarm Matrix”, the buttons for the manually switching are no longer present. Instead the advice “set by marker” is displayed.

Outlets			Outlets		
Status	Switch	Name	Status	Switch	Name
1 <input type="radio"/>	Switch On	Outlet 1	5 <input checked="" type="radio"/>	Switch Off	Outlet 5
2 <input type="radio"/>	Switch On	Outlet 2	6 <input type="radio"/>	Switch On	Outlet 6
3 <input type="radio"/>	Switch On	Outlet 3	7 <input checked="" type="radio"/>	set by marker	Outlet 7
4 <input type="radio"/>	Switch On	Outlet 4	8 <input checked="" type="radio"/>	set by marker	Outlet 8

Figure 25: HTTP Status Display of the Outlets

4.3 Status display

The Sitemanager II/v3 incorporates different pages for monitoring. Choose in the menu “Network & Security” which status page is the HTTP default page and will be displayed on start up of every HTTP connection.

4.3.1 Input / Output status

Monitor the state of the devices connected at the SiteManager II/v3 inputs/outputs through the menu "SiteManager II/v3 Status" (default setting for HTTP default page).



Figure 26: HTTP menu for status displays

The status display gives you an overview of the output / input status and of the actual sensor measurements as well as its thresholds for the alarm. Additionally, you have the possibility to acknowledge alarms (Button "Ack") as shown in the figure above.



Note: If an alarm is present at an output, you can not switch the output, because the priority of the alarm is higher. Turn off the alarm, if you want to be able to switch the output.

SiteManager II Status

Version: 2.03

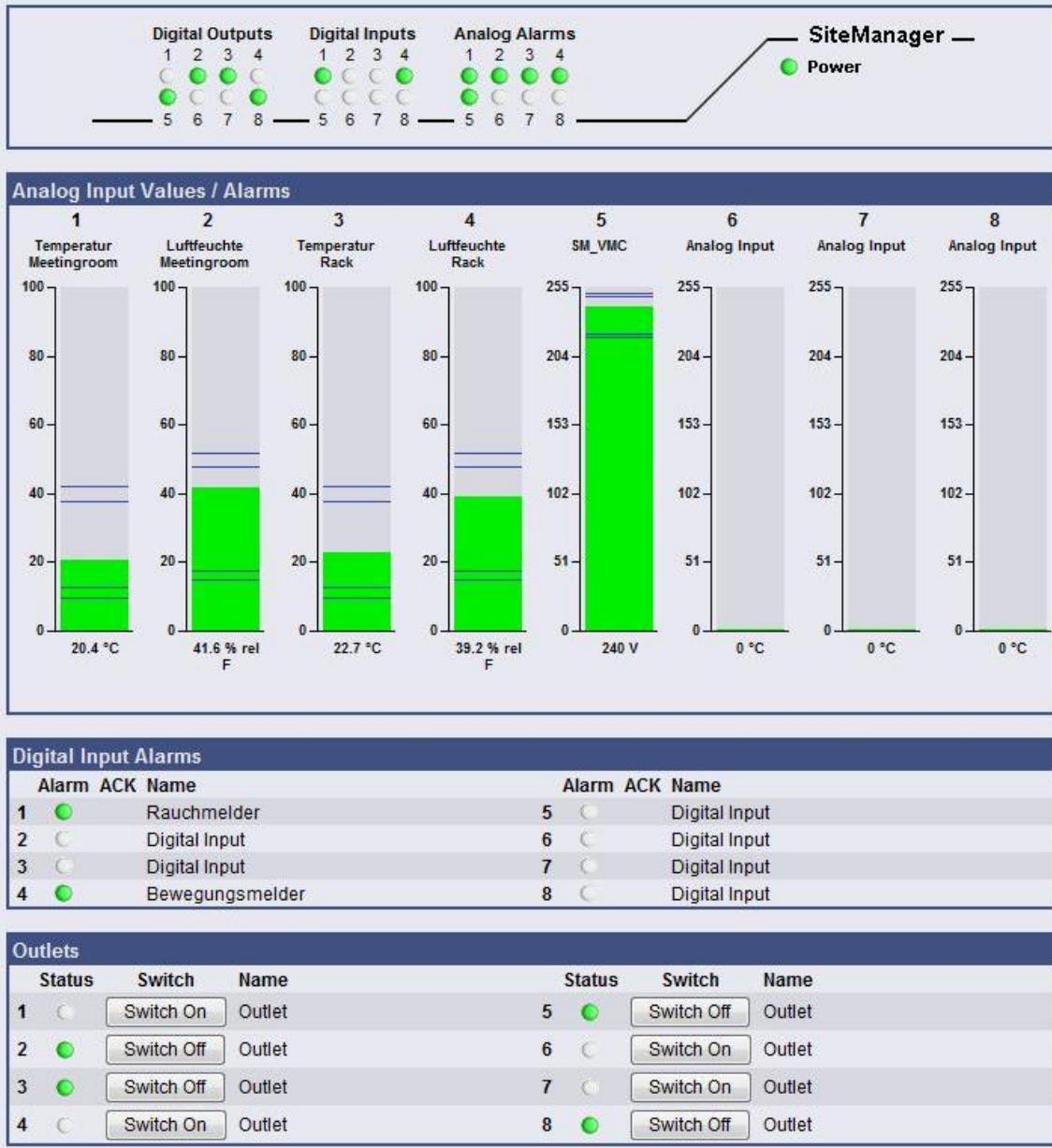


Figure 27: Status display with temperature and humidity sensor as well as digital Inputs and Outlets

The SiteManager II/v3 displays the measurement values of the analog inputs vertical and provides the definition of PreAlarm-Thresholds for the low as well as for the high threshold.

Analog Inputs												
Port	Name	Low Alarm	Low PreAlarm	High PreAlarm	High Alarm	Sensor Range	Unit	Sensor Type				
1	Temperatur Rack	10	<input checked="" type="checkbox"/>	13	<input checked="" type="checkbox"/>	38	<input checked="" type="checkbox"/>	42	<input checked="" type="checkbox"/>	0	- 100	°C
2	Luftfeuchte Rack	15	<input checked="" type="checkbox"/>	17	<input checked="" type="checkbox"/>	45	<input checked="" type="checkbox"/>	47	<input checked="" type="checkbox"/>	0	- 100	% rel F
3	Temperatur Serverraum	8	<input checked="" type="checkbox"/>	11	<input checked="" type="checkbox"/>	35	<input checked="" type="checkbox"/>	37	<input checked="" type="checkbox"/>	0	- 100	°C
4	Luftfeuchte Serverraum	12	<input checked="" type="checkbox"/>	15	<input checked="" type="checkbox"/>	42	<input checked="" type="checkbox"/>	45	<input checked="" type="checkbox"/>	0	- 100	% rel F
5	Analog Input	0	<input type="checkbox"/>	0	<input type="checkbox"/>	100	<input type="checkbox"/>	0	<input type="checkbox"/>	- 100	°C	Custom 0-10V
6	Analog Input	0	<input type="checkbox"/>	0	<input type="checkbox"/>	100	<input type="checkbox"/>	0	<input type="checkbox"/>	- 100	°C	Custom 0-10V
7	Analog Input	0	<input type="checkbox"/>	0	<input type="checkbox"/>	100	<input type="checkbox"/>	0	<input type="checkbox"/>	- 100	°C	Custom 0-10V
8	Analog Input	0	<input type="checkbox"/>	0	<input type="checkbox"/>	100	<input type="checkbox"/>	0	<input type="checkbox"/>	- 100	°C	Custom 0-10V
Hysteresis:		3										
Lograte:		180	Seconds									<input type="button" value="Apply"/>

Figure 28: Configuration of the thresholds of the analog Inputs

The CS121 firmware version 4.26.x provides the option to define threshold events for the analogue inputs. Click the “Configure Threshold Events” button into the CS121 “Events/Alarms” menu.

Figure 29: Configuration of the threshold events of the analog Inputs

In this example, a below threshold of 13 was defined for SM_analogue 1, in this case for the temperature in °C, which will appear into the Event Configuration, after you executed the “Save, Exit & Reboot” function.

Device Status: UPS STATUS OK
 AUX Status: Sensor Status:

Event Configuration

Event Overview (Events 98-127 of 127)

Event	Disabled	Log	EMail	RCCMD Shutdown	RCCMD Message	RCCMD Execute
98 Alarm Digital Input 1 off	<input type="checkbox"/>	1	0	0	0	0
99 Alarm Digital Input 2 off	<input type="checkbox"/>	1	0	0	0	0
100 Alarm Digital Input 3 off	<input type="checkbox"/>	1	0	0	0	0
101 Alarm Digital Input 4 off	<input type="checkbox"/>	1	0	0	0	0
102 Output 1 on	<input type="checkbox"/>	1	0	0	0	0
103 Output 2 on	<input type="checkbox"/>	1	0	0	0	0
104 Output 3 on	<input type="checkbox"/>	1	0	0	0	0
105 Output 4 on	<input type="checkbox"/>	1	0	0	0	0
106 Output 1 off	<input type="checkbox"/>	1	0	0	0	0
107 Output 2 off	<input type="checkbox"/>	1	0	0	0	0
108 Output 3 off	<input type="checkbox"/>	1	0	0	0	0
109 Output 4 off	<input type="checkbox"/>	1	0	0	0	0
110 Alarm Marker 1	<input type="checkbox"/>	1	0	0	0	0
111 Alarm Marker 2	<input type="checkbox"/>	1	0	0	0	0
112 Alarm Marker 3	<input type="checkbox"/>	1	0	0	0	0
113 Alarm Marker 4	<input type="checkbox"/>	1	0	0	0	0
114 Alarm Marker 5	<input type="checkbox"/>	1	0	0	0	0
115 Alarm Marker 6	<input type="checkbox"/>	1	0	0	0	0
116 Alarm Marker 7	<input type="checkbox"/>	1	0	0	0	0
117 Alarm Marker 8	<input type="checkbox"/>	1	0	0	0	0
118 Alarm Marker 1 off	<input type="checkbox"/>	1	0	0	0	0
119 Alarm Marker 2 off	<input type="checkbox"/>	1	0	0	0	0
120 Alarm Marker 3 off	<input type="checkbox"/>	1	0	0	0	0
121 Alarm Marker 4 off	<input type="checkbox"/>	1	0	0	0	0
122 Alarm Marker 5 off	<input type="checkbox"/>	1	0	0	0	0
123 Alarm Marker 6 off	<input type="checkbox"/>	1	0	0	0	0
124 Alarm Marker 7 off	<input type="checkbox"/>	1	0	0	0	0
125 Alarm Marker 8 off	<input type="checkbox"/>	1	0	0	0	0
126 SM_analogue 1<13.00	<input type="checkbox"/>	1	0	0	0	0
127 SM_analogue 1>47.00	<input type="checkbox"/>	1	0	0	0	0

|<< << Events 68-97

Configure threshold events

Figure 30: Configuration of the threshold events for SM_analogue 1

4.3.2 gChart

gChart offers to monitor numerousness measurement values in a graphical visualisation through a chart. gChart is a GENEREX plug-in for the MS Internet Explorer available as free download from the GENEREX web side. It is realized as activeX component and must be installed on the client side. How to install the chart please follow the instructions on the GENEREX download page.

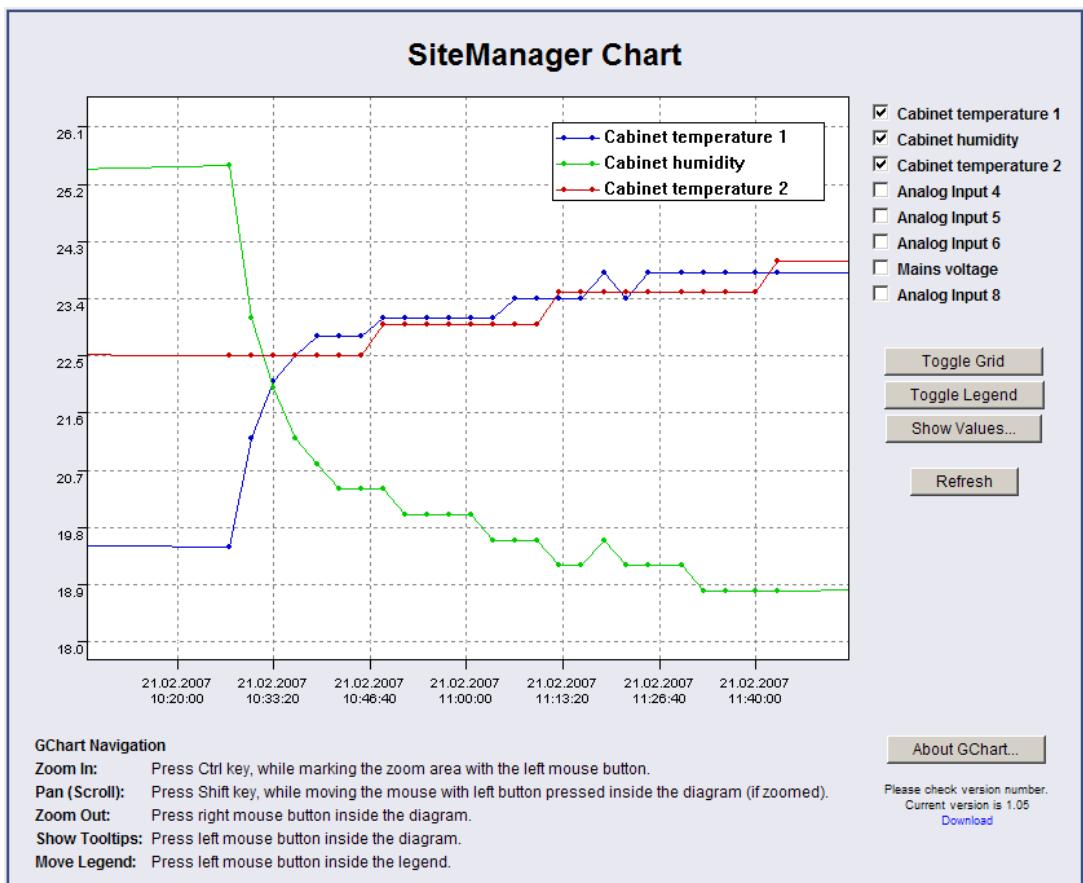


Figure 31: SiteManager II/v3 gChart

4.4 Event configuration

The Event/Alarm configuration is based on a combination of events and actions (resp. Jobs). At the SiteManager II/v3 there are various events defined, e.g. events concerning the attached devices like "Alarm Analog Input 1", "Alarm Digital Input 1" etc. and also events concerning a connected UPS like "Powerfail", "UPS Battery bad", "Battery low" etc.

The SiteManager II/v3 allows you to release one or more actions on each event. An action can be e.g. to write a logfile entry in the alarm logfile (as default all events do perform an logfile event), to send an eMail or to perform an RCCMD-Command (e.g. shutdown signals to several RCCMD Clients).

- ▶ To configure events and actions open the menu "Events / Alarms". The menu "Event Configuration" shows you an overview about the events and the number of configured actions.

Event Configuration									
Event Overview									
Event	Log	Email	RCCMD Shutdown	RCCMD Message	RCCMD Execute	UPS Shutdown	AUX	Dialer	RCCMD Trap
1 Powerfail	0	0	1	1	1	0	0	0	1
2 Power	Powerfail	4 Jobs							
3 System	1. RCCMD Msg	192.168.202.147							
4 UPSMAN	2. RCCMD SD	192.168.202.147							
5 UPS con	3. RCCMD Exe	192.168.202.147							
	4. RCCMD Trap	Powerfail on #SERVER UPS can power system for #AUTONOMTIME min.							

Figure 32: HTTP - Event Configuration with tool tip

- ▶ Choose the event you wish to configure to enter the event editor.

The screenshot shows a web-based 'Event Editor' interface. At the top right, it says 'Event Editor' and 'Event: 'PreAlarm Analog Input 1 Low''. Below this is a table titled 'Event Jobs for 'PreAlarm Analog Input 1 Low''. The table has columns: Job Type, When, Parameter 1, and Parameter 2. It contains two rows:

	Job Type	When	Parameter 1	Parameter 2
1	Edit Del Test Log	O	PreAlarm Analog Input 1 Low' Job 1	
2	Edit Del Test RCCMD Trap	O	PreAlarm Analog Input 1 Low' Job 2	

Below the table is a button labeled 'Add new job'. At the bottom left of the interface is a link 'Back to event overview'.

Figure 33: HTTP - Event Editor

The Event Editor allows you to edit, delete and test existing events, as well as to add a new event job. Just click on the desired action to enter the Job Editor, who lets you make the configuration.

4.4.1 Events ...

Please call the menu “Events / Alarms” in the Web-browser to open the main configuration site, whereon all configurable events are listed.

4.4.1.1 ... concerning the UPS

In the Sitemanager's menu “Event overview” you see on top a couple of events concerning the state of an connected UPS (usually numbered from 1). Which events are actual available depends on connected UPS model. In the following, we introduce the main and important events which should be handled in general, if a UPS is connected to the Sitemanager.

- **Powerfail**

The event “Powerfail” will be released when the UPS has lost the power supply. This event is usually used to proceed operations like backup-strategies, batch-files to be executed on client stations etc. pp. You can configure such jobs with the “Remaining time”-parameter to ensure the actions will be executed completely.

- **System shutdown**

The event “system shutdown” will be released, if the configured “System Shutdown Time” (in the menu “UPS model and system”) is reached. This means, there are yet the configured minutes left until the battery’s capacity is expected to be finished (as calculated by the adapter).

This event should only be used to proceed all operations concerning your forced shutdown scenarios. Further operations are usually configured on the event “Powerfail”.



Note: This EVENT is the final task a CS121 can initiate before the UPS switches off! DO NOT use this event for triggering shutdowns via RCCMD etc. because the remaining time in this status is not secure. We strongly recommend to use the event “Powerfail” and configure the RCCMD shutdown calls with a UPS “remaining time”, this is the best way to send RCCMD shutdowns to several IP-addresses in a certain logic or sequence!

- **Battery low**

The event “Battery low” will be released from the UPS when the battery charge has reached a critical state.

- **UPSMAN started**

The event “UPSMAN started” is periodically released in normal operating mode. You can use this event to configure jobs, which should be executed as long as the adapter is working in normal mode.



Note: Same UPS models allow you to configure the thresholds for releasing UPS specific events individual. CS121 also supports these features if the UPS includes this possibility.

- **Continuous, periodic events:**

To define an event job which will be executed continuous, e.g. daily, create a job on the event „UPSMAN started“, as in the following figure:

Function:	Send an EMail
Receiver:	someone@somewhere.com
Text:	UPSMAN at 192.168.200.1 started
Use text as subject:	No
When:	<input type="radio"/> Immediately, once <input type="radio"/> Scheduled in 0 seconds <input checked="" type="radio"/> Every 86400 seconds <input type="radio"/> After 0 seconds <input type="radio"/> After 0 seconds & repeat <input type="radio"/> After 0 seconds on battery <input type="radio"/> At 0 seconds remaining time

Figure 34: HTTP - Job Editor: Continuous event job

For example the configuration as shown above causes, that each day (is equivalent to 86400 seconds) an email to “someone@somewhere.com” will be sent, until the SiteManager II/v3 is in normal operating mode.

4.4.1.2 Notification via SMS

From firmware version 4.17.x or higher is a new function available, which offers a notification via SMS. Just use a simple 1:1 cable for the connection of the SiteManager II/v3 and the GSM modem.

Function:	Send SMS with GSM modem
Phone Number:	Write to Logfile Send an EMail Send RCCMD Shutdown to remote client Send RCCMD Message to remote client Send RCCMD Command to remote client Shutdown UPS Switch AUX/SensorMan/UPS Output Send RCCMD Trap Send Wake-On-LAN Magic Packet Send RAS Notification Send SMS with GSM modem

Figure 35: HTTP – Job Editor: Send SMS with GSM modem

Set the telephone number of the receiver and the text into the accordant areas.

LED Status Display

Operating Status:	LED Signaling:
SIM card not present	Slowly red flashing
SIM card active	Fast red flashing



Figure 36: Siemens GSM TMA T35i modem

Into the menu “System & Network Status” you can see the signal level of the modem, to adjust your antenna optimal. Green means a good signal is present.

System Info & Network Status			
System Information			
CS121 Hardware	CS131	Location	
CS121 Firmware	CS121-SNMP v4.17.12 090831	System Name	
	HyNetOS Rel. 2.4.1.32(pdu) - Aug 27, 2009 I*target Server Rel. 2.4.1.15(pdu) - Aug 06, 2009 DRIVER Generex CS123 Rel. 2.4.1.79(pdu) - Aug 29, 2008 Logger Version:CS123, ROM-Version: 2.3.151(pdu) - Jun 05, 2009 UPS driver: 714	System Contact	
UPS Manufacturer	Generex	Attached Devices	
UPS Model	smart offline UPS	System Time	
		02.09.2009 12:17:07	
		Uptime	
		0 days 0 hours 10 minutes 3 seconds	
		Total Uptime	
		Approx. 0 days 0.2 hours	
		GSM Signal Quality -109,-53 dBm	
Network Status			
MAC Address	00-03-05-0E-07-19	Telnet Server	On
Network Speed	AUTO	HTTP Server	On
IP Address	192.168.222.186	Upssmon Server	On
Subnet Mask	255.255.255.0	Use RCCMD2 Traps	Yes
Default Gateway	192.168.222.100	SNMP Server	On
DNS Server	192.168.222.100	Use SNMP Coldboot Trap	No
E-Mail Server	not configured	Use SNMP Authentication Trap	No
Time Server	129.6.15.29	Modbus Server	On

Figure 37: HTTP – “System & Network Status”

4.4.1.3 ... concerning the Sitemanager II/v3 Inputs / Outputs

Each connected device at the input or output socket has its own event which allows to release specific actions in dependency of the status of the device. Therefore the following events are supported:

- **Alarm Analog Input 1-8:** Will be released, if the configured alarm thresholds (see section 4.1.1) are exceeded.
- **PreAlarm Analog Input 1-8:** Will be released, if the configured prealarm thresholds (see section 4.1.1) are exceeded.
- **Alarm Digital Input 1-8:** Will be released, if the contact state indicates the alarm state. (Opposite of NC contact, see section 4.1.2)
- **Alarm Marker 1-8:** Will be released, if the configured Marker (see section 4.2) is set.
- **Output 1-8 on:** Will be released, if the output relay is switched (see section 4.1.3).
- **Digital Input 1-8 off:** Will be released, while the digital input is set as active and OFF (see section 4.1.2). This event can be used to release a continuous, periodic action.
- **Digital Output 1-8 off:** Will be released, while the relay output is switched off. This event can be used to release a continuous, periodic action.

4.4.2 Email Job



Figure 38: HTTP - Job Editor: Email-Job

To configure an Email job follow the entries in the figure above.



Note: It is condition before you configure an Email job that you have made the Email settings in the menu "Email". Please observe, that the entries are valid, before testing.

- ▶ Apply your settings and test the Email-job in the "Event Editor" to ensure Email will be sent.

4.4.3 RCCMD - Perform shutdown signals to network computers

RCCMD (Remote Console Command) is the world's most successful shutdown client for heterogeneous networks and is the most secure way to establish a UPS multiple server shutdown sequence today. RCCMD clients are listening to an RCCMD server which is usually an UPSMAN software, CS121 or any third-party UPS manager which has a license to use RCCMD. An RCCMD server is found inside any CS121 and is triggering RCCMD clients in case of alarms. Therefore RCCMD requires such listeners on each client-computer you wish to forward RCCMD signals. For installation of RCCMD at client-side please see the section in chapter "Add-on software".



Note: RCCMD clients are optional and not freeware. Most CS121 are equipped today with a single RCCMD standard license, some UPS makers add more licenses, other do not deliver any license at all with a CS121. Contact your UPS maker and ask for the license regulations for RCCMD in conjunction with your CS121.

License regulations:

Please note that in order to use these functions legally, the corresponding RCCMD client program is installed and started from the UPS-Management Software CD. The RCCMD license code can only be used once per installation. If more computers need to be added to the shutdown process, additional RCCMD client licenses are required.

To send shutdown-signals to computers in case of a powerfail event you have to install and configure the RCCMD client at the computers you want to shutdown and make some configurations at the adapter's event settings.



Note: All network components, such as routers, hubs etc. need to be full UPS-supported, as it is otherwise not possible to reach all clients during the network shutdown.

- **Installation of the RCCMD client:** You find a setup procedure for RCCMD on the UPS Management Software CD or downloadable from www.generex.de.

The RCCMD Setup contains a wizard, which guides you through the installation. At the first window you have to enter the IP address of the adapter, from which the client receives the RCCMD shutdown-signal. Confirm the following pre-settings and mind the shutdown file at the ultimate window. Press „Configure“ to edit the actual shutdown sequence at the client. (Alternatively you can also edit the batchfile to add or change the actions to be executed.) Finally press „Install“ to complete the configuration and to start the RCCMD service.



Note: Each RCCMD installation needs its own licence code. Usually the CS121 package contains at least one licence (depends on the model). Contact your UPS dealer to obtain further licence codes.

- **Configuration of the adapter's event settings:** Call the menu “Events & Alarms” at the adapter's HTTP-configuration, click on the event “Powerfail” and press the button “Add new job” to open the CS121's Job Editor.

There, choose as function from the drop-down menu the option “Send RCCMD Shutdown to remote client” and enter the IP-address of the client. (the listener port is usually 6003) At the right side you can specifiy when the shutdown-signal is to be released, e.g. „do after 300 seconds“.



Note: For security reasons we recommend to make the same RCCMD shutdown entries at „Powerfail“ for the Event “Battery low” - but here without any delays to avoid that the server crashes because of low battery alarm!

Appendix

A. SITEMANAGER II/v3 – technical data

Power Supply:	15VDC stabilized, 1A (then about 500mA are left for supply of sensors)
Max. permitted current per output:	4 A (with ohmic load, cos phi 1)
Dimensions:	430 mm x 156 mm x 44 mm (BxTxH)
with mounting brackets:	19", 1 HE
Operating temperature:	0 - 40°C
Rel. air humidity:	0 - 95%, not dewed
Degree of protection:	IP 20
Cable diameters for outputs	0,2mm ² - 2,5mm ²

B. Pin layout for Input sockets

Sensor Input 1:

Pin 1	12 VDC +
Pin 2	Analog Channel 1 (0-10V)
Pin 3	Analog Channel 2 (0-10V)
Pin 4	GROUND
Pin 5	SM_II_DIG Sensor1 Input
Pin 6	SM_II_DIG Sensor2 Input

Sensor Input 2:

Pin 1	12 VDC +
Pin 2	Analog Channel 3 (0-10V)
Pin 3	Analog Channel 4 (0-10V)
Pin 4	GROUND
Pin 5	SM_II_DIG Sensor1 Input
Pin 6	SM_II_DIG Sensor2 Input

Sensor Input 3:

Pin 1	12 VDC +
Pin 2	Analog Channel 5 (0-10V)
Pin 3	Analog Channel 6 (0-10V)
Pin 4	GROUND
Pin 5	SM_II_DIG Sensor1 Input
Pin 6	SM_II_DIG Sensor2 Input

Sensor Input 4:

Pin 1	12 VDC +
Pin 2	Analog Channel 7 (0-10V)
Pin 3	Analog Channel 8 (0-10V)
Pin 4	GROUND
Pin 5	SM_II_DIG Sensor1 Input
Pin 6	SM_II_DIG Sensor2 Input

C. Syntax for switching of the outputs

Set the RCCMD client at port 6002 to "on" and restart it. Install the RCCMD Windows Wizard and open a DOS box. The following is a syntax example with the IP address 192.168.202.165:

```
C:\RCCMD\  
rccmd -s -a 192.168.222.238 -p 6002 -se "EXECUTE |UPSCMD|20000|1,1"
```

ATTENTION! The blank after the "Execute" is important!

Common syntax for the switching of the outputs of the SiteManager:

```
|UPSCMD|20000|1,0    output 1 to low  
|UPSCMD|20000|1,1    output 1 to high  
|UPSCMD|20000|2,0    output 2 to low  
|UPSCMD|20000|2,1    output 2 to high  
|UPSCMD|20000|3,0    output 3 to low  
|UPSCMD|20000|3,1    output 3 to high  
|UPSCMD|20000|4,0    output 4 to low  
|UPSCMD|20000|4,1    output 4 to high  
|UPSCMD|20000|5,0    output 5 to low  
|UPSCMD|20000|5,1    output 5 to high  
|UPSCMD|20000|6,0    output 6 to low  
|UPSCMD|20000|6,1    output 6 to high  
|UPSCMD|20000|7,0    output 7 to low  
|UPSCMD|20000|7,1    output 7 to high  
|UPSCMD|20000|8,0    output 8 to low  
|UPSCMD|20000|8,1    output 8 to high
```

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